

RECREATIONAL INTERPRETATIONS  
McLean County, North Dakota

The soils of the survey area are rated in the following tables according to limitations that affect their suitability for recreation. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses. Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. Slightly limited indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in this table can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, sanitary facilities, and water management.

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas.

The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Picnic areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Playgrounds require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Paths and trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a water table, ponding, flooding, slope, and texture of the surface layer.

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Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
Ac: AQUENTS-----	Severe: flooding wetness	Moderate: excess salt wetness	Severe: wetness	Moderate: wetness	Moderate: excess salt wetness
Af: AQUOLLS-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
ArA: ARNEGARD-----	Slight	Slight	Moderate: slope	Slight	Slight
ArB: ARNEGARD-----	Slight	Slight	Moderate: slope	Slight	Slight
ArC: ARNEGARD-----	Slight	Slight	Severe: slope	Slight	Slight
Ba: BANKS-----	Severe: flooding	Moderate: too sandy	Moderate: flooding too sandy	Moderate: too sandy	Moderate: flooding droughty
Bk: BANKS-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding droughty
BoA: BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight
BsB: BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight
WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
BwA: BOWDLE-----	Slight	Slight	Moderate: slope	Slight	Slight
ByB: BOWDLE-----	Slight	Slight	Moderate: slope	Slight	Slight
STADY-----	Slight	Slight	Moderate: slope	Slight	Slight
ByC: BOWDLE-----	Slight	Slight	Severe: slope	Slight	Slight
STADY-----	Slight	Slight	Severe: slope	Slight	Slight
CaE: CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
CbF: CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock
SHALE OUTCROP---	Severe: percs slowly slope too clayey	Severe: percs slowly slope too clayey	Severe: slope too clayey depth to rock	Severe: erodes easily slope too clayey	Severe: slope depth to rock droughty
CF: CUT AND FILL LAND-----	Slight	Slight	Severe: slope	Slight	Slight
ChD: COHAGEN-----	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Slight	Severe: depth to rock
VEBAR-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: area reclaim slope thin layer
ChE: COHAGEN-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock
VEBAR-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
Co: COLVIN-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
Dm: DIMMICK-----	Severe: percs slowly too clayey ponding	Severe: percs slowly too clayey ponding	Severe: percs slowly too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding
Dv: DIVIDE-----	Slight	Slight	Slight	Slight	Slight
FaA: FALKIRK-----	Slight	Slight	Moderate: slope	Slight	Slight
FaB: FALKIRK-----	Slight	Slight	Severe: slope	Slight	Slight
FbA: FALKIRK-----	Slight	Slight	Moderate: slope	Slight	Slight
MAX-----	Slight	Slight	Moderate: slope	Slight	Slight
FbB: FALKIRK-----	Slight	Slight	Moderate: slope	Slight	Slight

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MAX-----	Slight	Slight	Moderate: slope	Slight	Slight
FbC: FALKIRK-----	Slight	Slight	Severe: slope	Slight	Slight
MAX-----	Slight	Slight	Severe: slope	Slight	Slight
FfA: FARNUF-----	Slight	Slight	Moderate: slope	Slight	Slight
FfB: FARNUF-----	Slight	Slight	Moderate: slope	Slight	Slight
Fld: FLASHER-----	Severe: area reclaim thin layer	Severe: area reclaim thin layer	Severe: area reclaim slope thin layer	Slight	Severe: area reclaim thin layer
Fle: FLASHER-----	Severe: area reclaim slope thin layer	Severe: area reclaim slope thin layer	Severe: area reclaim slope thin layer	Severe: slope	Severe: area reclaim slope thin layer
FnA: FLAXTON-----	Slight	Slight	Moderate: slope	Slight	Slight
FnB: FLAXTON-----	Slight	Slight	Moderate: slope	Slight	Slight
FnC: FLAXTON-----	Slight	Slight	Severe: slope	Slight	Slight
Fs: FOSSUM-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
GaA: GRAIL-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Slight
GaB: GRAIL-----	Slight	Slight	Moderate: slope	Severe: erodes easily	Slight
Gn: GRANO-----	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding
GoA: GRASSNA-----	Slight	Slight	Moderate: slope	Slight	Slight

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
GP: GRAVEL PITS-----	Severe: slope small stones	Severe: slope too sandy	Severe: slope small stones	Severe: slope too sandy	Severe: slope small stones droughty
HaA: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Slight	Slight
Hk: HARRIET-----	Severe: flooding percs slowly wetness	Severe: excess sodium percs slowly wetness	Severe: percs slowly wetness	Severe: wetness	Severe: excess sodium wetness
SALINE LAND-----	Severe: excess salt ponding	Severe: excess salt ponding	Severe: excess salt ponding	Severe: ponding	Severe: excess salt ponding
Hn: HAVRELON-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
Ho: HAVRELON-----	Severe: flooding	Slight	Slight	Slight	Moderate: flooding
Hs: HEIL-----	Severe: percs slowly ponding	Severe: excess sodium ponding	Severe: percs slowly ponding	Severe: ponding	Severe: excess sodium ponding
IL: INTERMITTENT LAKE-----	---	---	---	---	---
KrB: KREM-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Slight
La: LALLIE-----	Severe: flooding too clayey wetness	Severe: too clayey wetness	Severe: flooding too clayey wetness	Severe: too clayey wetness	Severe: flooding too clayey wetness
LaK: LAKE-----	---	---	---	---	---
LeB: LIHEN-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
LeC: LIHEN-----	Moderate: too sandy	Moderate: too sandy	Severe: slope	Moderate: too sandy	Moderate: droughty
LgE: LIHEN-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope too sandy	Severe: slope

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
ZAHL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
LmB: LINTON-----	Slight	Slight	Moderate: slope	Slight	Slight
MANDAN-----	Slight	Slight	Moderate: slope	Slight	Slight
LmC: LINTON-----	Slight	Slight	Severe: slope	Slight	Slight
MANDAN-----	Slight	Slight	Severe: slope	Slight	Slight
LmD: LINTON-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
MANDAN-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
LmE: LINTON-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
MANDAN-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
Lw: LOHLER-----	Severe: flooding	Slight	Slight	Slight	Moderate: flooding
Ly: LOHLER-----	Severe: flooding	Moderate: too clayey	Moderate: too clayey	Moderate: too clayey	Severe: too clayey
Ma: MAKOTI-----	Slight	Slight	Slight	Slight	Slight
MdA: MANDAN-----	Slight	Slight	Slight	Slight	Slight
MdB: MANDAN-----	Slight	Slight	Moderate: slope	Slight	Slight
MdC: MANDAN-----	Slight	Slight	Severe: slope	Slight	Slight
Mf: MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
MgB: MAX-----	Slight	Slight	Moderate: slope	Slight	Slight
MhC: MAX-----	Slight	Slight	Severe: slope	Slight	Slight
BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
ZAHL-----	Slight	Slight	Severe: slope	Slight	Slight
MLC: MAX-----	Slight	Slight	Severe: slope	Slight	Slight
ZAHL-----	Slight	Slight	Severe: slope	Slight	Slight
MLD: MAX-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
ZAHL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
MoC: MORTON-----	Slight	Slight	Severe: slope	Slight	Moderate: area reclaim thin layer
NbA: NIOBELL-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
NbB: NIOBELL-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
NmB: NOONAN-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
MIRANDA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
NmD: NOONAN-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
MIRANDA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium slope	Slight	Severe: excess sodium
NtA: NUTLEY-----	Moderate: too clayey	Moderate: too clayey	Moderate: slope too clayey	Moderate: too clayey	Severe: too clayey
NtB: NUTLEY-----	Moderate: too clayey	Moderate: too clayey	Moderate: slope too clayey	Moderate: too clayey	Severe: too clayey
Or: ORTHENTS-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
Pa: PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
Pe: PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
PhA: PARSHALL-----	Slight	Slight	Moderate: slope	Slight	Slight
PhB: PARSHALL-----	Slight	Slight	Moderate: slope	Slight	Slight
PhC: PARSHALL-----	Slight	Slight	Severe: slope	Slight	Slight
PhD: PARSHALL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
PoA: PARSHALL-----	Slight	Slight	Moderate: slope	Slight	Slight
PoB: PARSHALL-----	Slight	Slight	Moderate: slope	Slight	Slight
RgC: REGENT-----	Slight	Slight	Severe: slope	Severe: erodes easily	Moderate: thin layer
RhB: RHOADES-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
Rm: RIVERWASH-----	Severe: flooding too sandy wetness	Severe: too sandy wetness	Severe: flooding too sandy wetness	Severe: too sandy wetness	Severe: flooding wetness droughty
Ro: ROSEGLEN-----	Slight	Slight	Slight	Slight	Slight
RpB: ROSEGLEN-----	Slight	Slight	Moderate: slope	Slight	Slight
TANSEM-----	Slight	Slight	Moderate: slope	Slight	Slight
RpC: ROSEGLEN-----	Slight	Slight	Severe: slope	Slight	Slight
TANSEM-----	Slight	Slight	Severe: slope	Slight	Slight
RsA: RUSO-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
RtB: RUSO-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
MANNING-----	Slight	Slight	Moderate: slope small stones	Slight	Moderate: droughty
RtC: RUSO-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
MANNING-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
RxB: RUSO-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
MANNING-----	Slight	Slight	Moderate: slope small stones	Slight	Moderate: droughty
RyC: RUSO-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
WABEK-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
RzA: RUSO-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
SeD: SEROCO-----	Severe: slope too sandy	Severe: slope too sandy	Severe: slope too sandy	Severe: too sandy	Severe: slope
Sn: SINAI-----	Moderate: too clayey	Moderate: too clayey	Moderate: too clayey	Moderate: too clayey	Severe: too clayey
St: STRAW-----	Severe: flooding	Slight	Slight	Slight	Slight
Sx: STRAW-----	Severe: flooding	Moderate: flooding	Slight	Moderate: flooding	Severe: flooding
STRAW-----	---	---	---	---	---
TlC: TELFER-----	Moderate: too sandy	Moderate: too sandy	Severe: slope	Moderate: too sandy	Moderate: droughty
LIHEN-----	Moderate: too sandy	Moderate: too sandy	Severe: slope	Moderate: too sandy	Moderate: droughty
Tp: TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
Tr: TREMABLES-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
VwC: VEBAR-----	Slight	Slight	Severe: slope	Slight	Moderate: area reclaim thin layer
W: WATER (WATER AREAS >40 ACRES)	Slight	Slight	Severe: slope	Slight	Slight
WaB: WABEK-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
ZAHL-----	Slight	Slight	Moderate: slope	Slight	Slight
MAX-----	Slight	Slight	Moderate: slope	Slight	Slight
WaD: WABEK-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
ZAHL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
MAX-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
WbB: WABEK-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
WbD: WABEK-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
WLB: WILLIAMS-----	Slight	Slight	Moderate: large stones slope	Slight	Moderate: large stones
WmA: WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
WmB: WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
WoA: WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
WoB: WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight
WoC: WILLIAMS-----	Slight	Slight	Severe: slope	Slight	Slight
BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight
WpB: WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
BOWBELLS-----	Slight	Slight	Moderate: slope	Slight	Slight
ZAHL-----	Slight	Slight	Moderate: slope	Slight	Slight
WrB: WILLIAMS-----	Slight	Slight	Moderate: slope	Slight	Slight
SINKHOLE-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
WsA: WILTON-----	Slight	Slight	Moderate: slope	Slight	Slight
WtB: WILTON-----	Slight	Slight	Moderate: slope	Slight	Slight
TEMVIK-----	Slight	Slight	Moderate: slope	Slight	Slight
WwC: WILTON-----	Slight	Slight	Severe: slope	Slight	Slight
WILLIAMS-----	Slight	Slight	Severe: slope	Slight	Slight
ZcE: ZAHL-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
CABBA-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock
ZmE: ZAHL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
MAX-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
ZpE: MAX-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
ZAHL-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
ZwC: ZAHL-----	Slight	Slight	Severe: slope	Slight	Slight
WILLIAMS-----	Slight	Slight	Severe: slope	Slight	Slight

